L Number	Hits	Search Text	DB	Time stamp
1	2273	("514/183,266.1,258.1,266.4").CCLS	USPAT	2004/02/27 11:25
2	1496	("544/283,242,293").CCLS	USPAT	2004/02/27 11:26
3	164	(("514/183,266.1,258.1,266.4").CCLS) and (("544/283,242,293").CCLS)	USPAT	2004/02/27 11:26
4	112	((("514/183,266.1,258.1,266.4").CCLS) and (("544/283,242,293").CCLS)) and quinazoline	USPAT	2004/02/27 11:26
5	17	((((("514/183,266.1,258.1,266.4").CCLS) and (("544/283,242,293").CCLS)) and quinazoline) and tetrahydro	USPAT	2004/02/27 11:28
6	1	(((((("514/183,266.1,258.1,266.4").CCLS) and (("544/283,242,293").CCLS)) and quinazoline) and tetrahydro) and cGMP	USPAT	2004/02/27 11:27
7	0	((((((("514/183,266.1,258.1,266.4").CCLS) and (("544/283,242,293").CCLS)) and quinazoline) and tetrahydro) and 2-phenyl	USPAT	2004/02/27 11:28

L Number	Hits	Search Text	DB	Time stamp
1	100	quinazoline and cGMP	USPAT	2004/02/27 11:19
2	0	(quinazoline and cGMP) and tetrahydo	USPAT	2004/02/27 11:20
3	4	tetrahydroquinazoline and cGMP	USPAT	2004/02/27 11:20

C:\APPS\EAST\bin\\default.wsp

L Number	Hits	Search Text	DB	Time stamp
18	13789	(cGMP and Prevention and preventing diseases) and diabetes	USPAT	2004/02/27 14:29
19	401	((cGMP and Prevention and preventing diseases) and diabetes) and quinazoline	USPAT	2004/02/27 14:29
20	18	(((cGMP and Prevention and preventing diseases) and diabetes) and quinazoline) and 2-phenyl	USPAT	2004/02/27 14:31
21	409	(cGMP and Prevention and preventing diseases) and tetrahydro and quinazoline	USPAT	2004/02/27 14:32
22	1547	((cGMP and Prevention and preventing diseases) and diabetes) and tetrahydro	USPAT	2004/02/27 14:33
23	125	(((cGMP and Prevention and preventing diseases) and diabetes) and tetrahydro) and quinazoline	USPAT	2004/02/27 14:37
24	27	((cGMP and Prevention and preventing diseases) and diabetes) and tetrahydroquinazoline	USPAT	2004/02/27 14:37

```
=> s cGMP and treating
L2          198 CGMP AND TREATING

=> s cGMP and preventing
L3          147 CGMP AND PREVENTING

=> s l2 and l3
L4           24 L2 AND L3

=> s l4 and stroke
L5            3 L4 AND STROKE

=> s l4 and diabetes
L6            7 L4 AND DIABETES

=> sl4 and learning power
SL4 IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> s l4 and learning power
L7            0 L4 AND LEARNING POWER

=> s l4 and asthma
L8            2 L4 AND ASTHMA

=> s l4 and erectile function
L9            0 L4 AND ERECTILE FUNCTION

=> a l4 and hypertensiopn
A IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> s l4 and quinazoline
L10           1 L4 AND QUINAZOLINE

=> s l4 and tetrahydro and quinazoline
L11           0 L4 AND TETRAHYDRO AND QUINAZOLINE

=> d l10 fbib hitstr abs total

L10  ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2004 ACS on STN
AN   2001:916407  CAPLUS
DN   136:53755
TI   Synthesis of nitrosated and nitrosylated (hetero)cyclic phosphodiesterase
     inhibitors used in treatment of sexual dysfunction
IN   Garvey, David S.; Saenz de Tejada, Inigo; Earl, Richard A.; Khanapure,
     Subhash P.
PA   Nitromed, Inc., USA
SO   U.S., 117 pp., Cont.-in-part of U.S. 5,958,926.
     CODEN: USXXAM
DT   Patent
LA   English
FAN.CNT 3
     PATENT NO.       KIND  DATE           APPLICATION NO.  DATE
```

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6331543	B1	20011218	US 1999-387727	19990901
				US 1996-740764 A219961101	
				WO 1997-US19870A219971031	
				US 1998-145142 A219980901	
	US 5874437	A	19990223	US 1996-740764	19961101
	WO 9819672	A1	19980514	WO 1997-US19870	19971031
	W: AU, CA, JP, US				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
				US 1996-740764 A 19961101	
	US 5958926	A	19990928	US 1998-145142	19980901
				US 1996-740764 A219961101	
	US 2002019405	A1	20020214	US 2001-941691	20010830
	US 6462044	B2	20021008		
				US 1996-740764 A219961101	
				WO 1997-US19870W 19971031	
				US 1998-145142 A219980901	
				US 1999-387727 A119990901	
	US 2003023087	A1	20030130	US 2002-216886	20020813
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				WO 1997-US19870A219971031	
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				US 2001-941691 A320010830	

PATENT FAMILY INFORMATION:

FAN 1998:323130

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PI	WO 9819672	A1	19980514	WO 1997-US19870	19971031
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	US 5874437	A	19990223	US 1996-740764	19961101
	AU 9851962	A1	19980529	AU 1998-51962	19971031
	AU 722480	B2	20000803		
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	EP 941086	A1	19990915	EP 1997-946871	19971031
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				US 1996-740764 A 19961101	
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				US 1996-740764 A 19961101	
				WO 1997-US19870W 19971031	
	US 6133272	A	20001017	US 1999-241281	19990201
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	US 6177428	B1	20010123	US 1999-247321	19990210

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				WO 1997-US19870A219971031
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				WO 1997-US19870A219971031
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				WO 1997-US19870W 19971031
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				WO 1997-US19870A219971031
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				US 1999-387727 A119990901
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FAN 1999:622282

	PATENT NO.	KIND	DATE	APPLICATION NO. DATE
PI	US 5958926	A	19990928	US 1998-145142 19980901
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US 6177428	B1	20010123		US 1999-247321 19990210
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				US 1998-145142 A319980901
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RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
				US 1998-145142 A 19980901
AU 9961334	A1	20000321		AU 1999-61334 19990901
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				WO 1999-US20024W 19990901
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			US 1998-145142 A 19980901
			WO 1999-US20024W 19990901
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			WO 1997-US19870A219971031
			US 1998-145142 A219980901
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			WO 1999-US20024W 19990901
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			WO 1997-US19870A219971031
			US 1998-145142 A219980901
			US 1999-387727 A119990901
			US 2001-941691 A320010830

OS MARPAT 136:53755
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Compds. I-V, derivs. thereof, and certain substituted Ph and phthalzaine derivs. were claimed [D2 = H, alkyl, D; D = NO, NO2, alkyl, acyl, phosphoryl, silyl, etc.; A1-3 comprise the other subunits of a 5- or 6-membered monocyclic aromatic ring; R8 = H, (halo)alkyl; p = 1-10; R24 = H, cyclohexyl, piperidinyl, etc., with the proviso that at least one of A1-3, J, or R24 contains T-Q or D; T = bond, O, S(O), amino; Q = NO, NO2; D1 = D or H; R37 = (hetero)aryl; R38 = H, halo, alkyl; G1 = alkyl, alkenyl or is part of a ring fused to the piperidine moiety of III; G4 = O, S; R40 = H, alkyl, haloalkyl, halo, etc.; R41 = alkyl, hydroxyalkyl, alkylcarboxy, etc.; R42 = aryl, alkylaryl, alkyloxyaryl; T1 = alkyl, oxyalkyl, thioalkyl, aminoalkyl]. Two synthetic examples were provided. E.g., the S-nitroso derivative of the 3-mercapto-3-methylbutyric acid ester of dipyridamole (VI) was prepared in 4 steps from dipyridamole in 3.5% overall yield. VI at doses of 10 and 30 μM was more efficacious in relaxing phenylephrine-induced tissue contraction than was the known phosphodiesterase inhibitor, dipyridamole. The present invention describes novel (nitrosated/nitrosylated) phosphodiesterase inhibitors, and compns. containing at least one (nitrosated/nitrosylated) phosphodiesterase inhibitor, and, optionally, one or more compds. that donate, transfer or release NO, elevate endogenous levels of endothelium-derived relaxing factor, stimulate endogenous synthesis of NO, or is a substrate for nitric oxide synthase and/or one or more vasoactive agents. The present invention also provides methods for **treating** or **preventing** sexual dysfunctions in males and females, for enhancing sexual responses in males and females, and for **treating** or **preventing** diseases induced by the increased metabolism of **cGMP**, such as hypertension, pulmonary hypertension, etc.

RE.CNT 86 THERE ARE 86 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L Number	Hits	Search Text	DB	Time stamp
18	13789	(cGMP and Prevention and preventing diseases) and diabetes	USPAT	2004/02/27 14:29
19	401	((cGMP and Prevention and preventing diseases) and diabetes) and quinazoline	USPAT	2004/02/27 14:29
20	18	(((cGMP and Prevention and preventing diseases) and diabetes) and quinazoline) and 2-phenyl	USPAT	2004/02/27 14:31
21	409	(cGMP and Prevention and preventing diseases) and tetrahydro and quinazoline	USPAT	2004/02/27 14:32
22	1547	((cGMP and Prevention and preventing diseases) and diabetes) and tetrahydro	USPAT	2004/02/27 14:33
23	125	(((cGMP and Prevention and preventing diseases) and diabetes) and tetrahydro) and quinazoline	USPAT	2004/02/27 14:37
24	27	((cGMP and Prevention and preventing diseases) and diabetes) and tetrahydroquinazoline	USPAT	2004/02/27 14:37

Welcome to STN International! Enter x:x

LOGINID:ssspta1611sxp

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2		"Ask CAS" for self-help around the clock
NEWS 3	SEP 09	CA/CAplus records now contain indexing from 1907 to the present
NEWS 4	DEC 08	INPADOC: Legal Status data reloaded
NEWS 5	SEP 29	DISSABS now available on STN
NEWS 6	OCT 10	PCTFULL: Two new display fields added
NEWS 7	OCT 21	BIOSIS file reloaded and enhanced
NEWS 8	OCT 28	BIOSIS file segment of TOXCENTER reloaded and enhanced
NEWS 9	NOV 24	MSDS-CCOHS file reloaded
NEWS 10	DEC 08	CABA reloaded with left truncation
NEWS 11	DEC 08	IMS file names changed
NEWS 12	DEC 09	Experimental property data collected by CAS now available in REGISTRY
NEWS 13	DEC 09	STN Entry Date available for display in REGISTRY and CA/CAplus
NEWS 14	DEC 17	DGENE: Two new display fields added
NEWS 15	DEC 18	BIOTECHNO no longer updated
NEWS 16	DEC 19	CROPU no longer updated; subscriber discount no longer available
NEWS 17	DEC 22	Additional INPI reactions and pre-1907 documents added to CAS databases
NEWS 18	DEC 22	IFIPAT/IFIUDB/IFICDB reloaded with new data and search fields
NEWS 19	DEC 22	ABI-INFORM now available on STN
NEWS 20	JAN 27	Source of Registration (SR) information in REGISTRY updated and searchable
NEWS 21	JAN 27	A new search aid, the Company Name Thesaurus, available in CA/CAplus
NEWS 22	FEB 05	German (DE) application and patent publication number format changes

NEWS EXPRESS	DECEMBER 28 CURRENT WINDOWS VERSION IS V7.00, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 23 SEPTEMBER 2003
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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* * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 10:46:31 ON 27 FEB 2004

=> ile reg
ILE IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 10:46:42 ON 27 FEB 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 25 FEB 2004 HIGHEST RN 654632-96-9
DICTIONARY FILE UPDATES: 25 FEB 2004 HIGHEST RN 654632-96-9

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

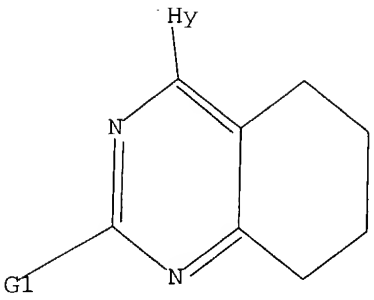
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading c:\program files\stnexp\queries\10610700.1

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



G1 Cb,Cy

Structure attributes must be viewed using STN Express query preparation.

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=> s l1 sss full
FULL SEARCH INITIATED 10:47:08 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 684139 TO ITERATE

 58.5% PROCESSED  400000 ITERATIONS                          968 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.13

FULL FILE PROJECTIONS:  ONLINE  **INCOMPLETE**
                        BATCH   **INCOMPLETE**
PROJECTED ITERATIONS:       684139 TO   684139
PROJECTED ANSWERS:            1533 TO     1777

L2          968 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                               155.42     155.63

FILE 'CAPLUS' ENTERED AT 10:47:27 ON 27 FEB 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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FILE COVERS 1907 - 27 Feb 2004  VOL 140 ISS 10
FILE LAST UPDATED: 26 Feb 2004  (20040226/ED)

  This file contains CAS Registry Numbers for easy and accurate
```

substance identification.

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=> s l2
L3          60 L2

=> s l3 and 2-phenyl and 2-aryl
L4           1 L3 AND 2-PHENYL AND 2-ARYL

=> d l4 fbib hitstr abs total

L4   ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2004 ACS on STN
AN   2003:221342  CAPLUS
DN   139:101096
TI   Synthesis and antiinflammatory screening of some quinazoline and
     quinazolyl-4-oxoquinazoline derivatives
AU   Gineinah, Magdy M.; El-Sherbeny, Magda A.; Nasr, Magda N.; Maarouf, Azza
     R.
CS   Pharmaceutical Organic Chemistry, College of Pharmacy, Mansoura
     University, Mansoura, 35516, Egypt
SO   Archiv der Pharmazie (Weinheim, Germany) (2003), Volume Date 2002,
     335(11-12), 556-562
     CODEN: ARPMAS; ISSN: 0365-6233
PB   Wiley-VCH Verlag GmbH & Co. KGaA
DT   Journal
LA   English
OS   CASREACT 139:101096
IT   561065-22-3P 561065-23-4P 561065-24-5P
     561065-25-6P 561065-29-0P 561065-30-3P
     561065-31-4P 561065-35-8P
     RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL
     (Biological study); PREP (Preparation)
        (preparation and antiinflammatory activity of [biquinazoline]diones,
        [(thioxo)biquinazolin]ones and [1,2,4]triazolo[4,3-
        a]quinazolinyl]quinazolinones)
RN   561065-22-3  CAPLUS
CN   [1(2H),2'-Biquinazoline]-2,4(3H)-dione, 4'-(4-methyl-1-piperazinyl)-3-
     phenyl- (9CI)  (CA INDEX NAME)
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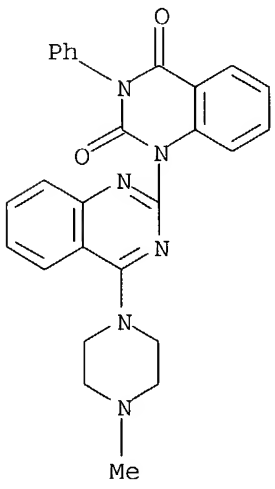
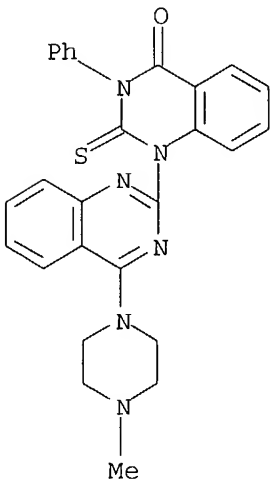
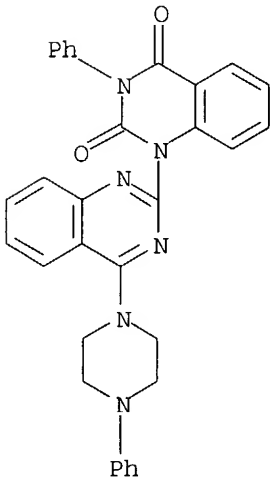


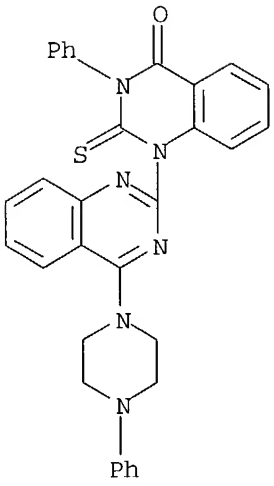
RN 561065-23-4 CAPLUS
CN [1(4H),2'-Biquinazolin]-4-one, 2,3-dihydro-4'-(4-methyl-1-piperazinyl)-3-phenyl-2-thioxo- (9CI) (CA INDEX NAME)



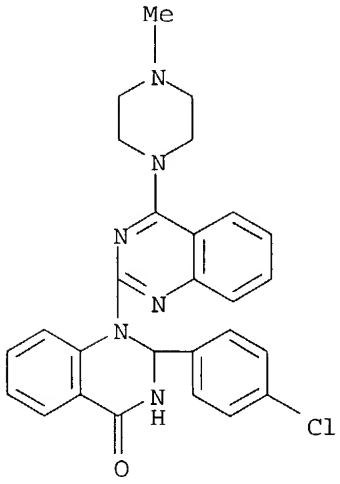
RN 561065-24-5 CAPLUS
CN [1(2H),2'-Biquinazoline]-2,4(3H)-dione, 3-phenyl-4'-(4-phenyl-1-piperazinyl)- (9CI) (CA INDEX NAME)



RN 561065-25-6 CAPLUS
CN [1(4H),2'-Biquinazolin]-4-one, 2,3-dihydro-3-phenyl-4'-(4-phenyl-1-piperazinyl)-2-thioxo- (9CI) (CA INDEX NAME)



RN 561065-29-0 CAPLUS
CN [1(4H),2'-Biquinazolin]-4-one, 2-(4-chlorophenyl)-2,3-dihydro-4'-(4-methyl-1-piperazinyl)- (9CI) (CA INDEX NAME)



RN 561065-30-3 CAPLUS
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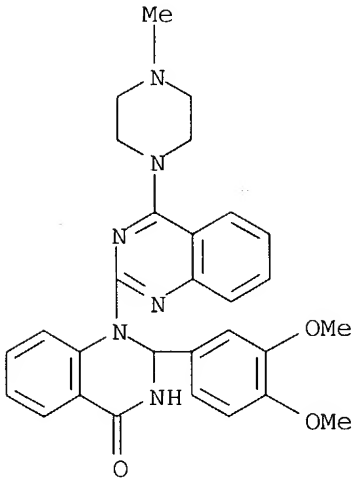

RN 561065-31-4 CAPLUS
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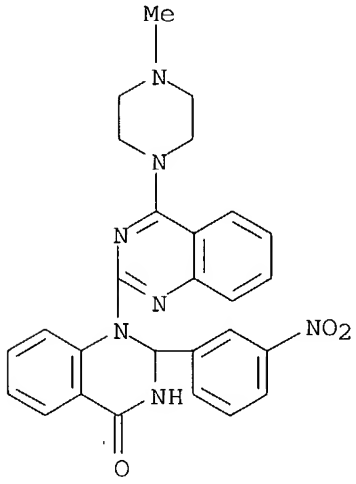
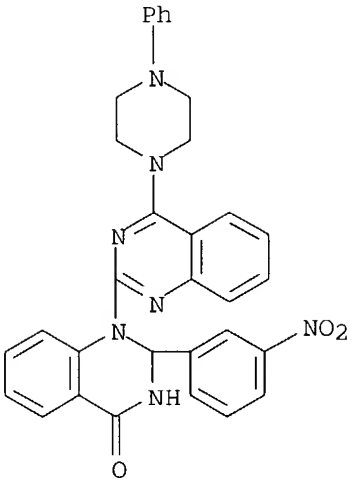
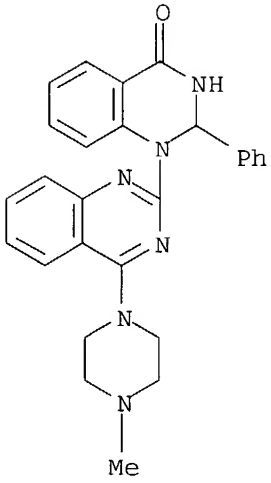


RN 561065-35-8 CAPLUS
CN [1(4H),2'-Biquinazolin]-4-one, 2,3-dihydro-2-(3-nitrophenyl)-4'-(4-phenyl-1-piperazinyl)- (9CI) (CA INDEX NAME)

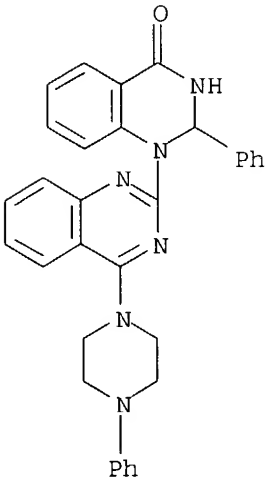


IT **561065-28-9P 561065-32-5P 561065-33-6P**
561065-34-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and antiinflammatory activity of [biquinazoline]diones, [(thioxo)biquinazolin]ones and [1,2,4]triazolo[4,3-a]quinazolinyl]quinazolinones)

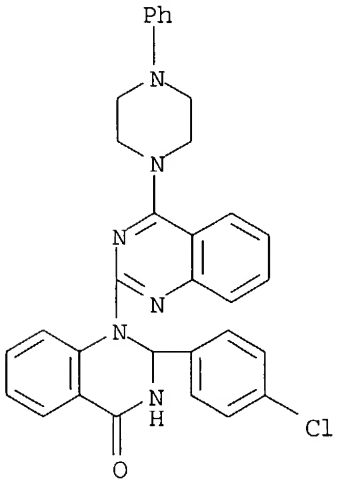
RN 561065-28-9 CAPLUS
CN [1(4H),2'-Biquinazolin]-4-one, 2,3-dihydro-4'-(4-methyl-1-piperazinyl)-2-phenyl- (9CI) (CA INDEX NAME)



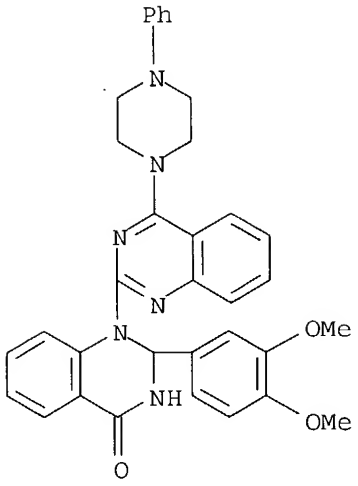
RN 561065-32-5 CAPLUS
CN [1(4H),2'-Biquinazolin]-4-one, 2,3-dihydro-2-phenyl-4'-(4-phenyl-1-piperazinyl)- (9CI) (CA INDEX NAME)



RN 561065-33-6 CAPLUS
CN [1(4H),2'-Biquinazolin]-4-one, 2-(4-chlorophenyl)-2,3-dihydro-4'-(4-phenyl-1-piperazinyl)- (9CI) (CA INDEX NAME)



RN 561065-34-7 CAPLUS
CN [1(4H),2'-Biquinazolin]-4-one, 2-(3,4-dimethoxyphenyl)-2,3-dihydro-4'-(4-phenyl-1-piperazinyl)- (9CI) (CA INDEX NAME)



AB Synthesis of some new derivs. of **2-aryl** -4-oxo-1-(4-quinazolyl)quinazolines is described. Me N-(4-quinazolyl)anthranilate was allowed to react with Ph iso(thio)cyanate to give 3-phenyl-1-(4-quinazolyl)-1,2,3,4-tetrahydro-2,4-dioxo-and 4-oxo-2-thioxoquinazolines. Alternatively, anthranilic acid amide derivs. were subjected to cyclization with aromatic aldehydes to give **2-aryl**-4-oxo-1-(4-quinazolyl)-1,2,3,4-tetrahydroquinazolines. On the other hand, 2-chloro-4-(4-substituted 1-piperazinyl)quinazoline derivs. were subjected to the same type of reactions at the 2-position to afford the corresponding quinazoline derivs. Furthermore, an acid amide was cyclized with acid chlorides to give the corresponding **2-aryl**-1-(2-chloro-4-quinazolyl)-4-oxo-1,4-dihydroquinazolines, from which triazoloquinazoline derivs. were synthesized through an intermediate hydrazine derivs. Most of the newly synthesized compds. were tested for their antiinflammatory activities. However, some of the novel compds. were found to exhibit good antiinflammatory potencies. Compds. thus prepared included 2,3-dihydro-3-phenyl-2-thioxo[1(4H),4'-biquinazolin]-4-one, 3-phenyl[1,4'(1H,3'H)-biquinazoline]-2,4'-dione, 2,3-dihydro-**2-phenyl**[1(4H),4'-biquinazolin]-4-one, 2'-chloro-2-(3-chlorophenyl)[1(4H),4'-biquinazolin]-4-one, 2'-chloro-2-(4-bromophenyl)[1(4H),4'-biquinazolin]-4-one, 2-(3-chlorophenyl)-1-[1-(3-nitrophenyl)[1,2,4]triazolo[4,3-a]quinazolin-4-yl]-4(1H)quinazolinone, 2-(4-bromophenyl)-1-[1-(3-nitrophenyl)[1,2,4]triazolo[4,3-a]quinazolin-4-yl]-4(1H)quinazolinone, etc.

RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

(FILE 'HOME' ENTERED AT 10:46:31 ON 27 FEB 2004)

FILE 'REGISTRY' ENTERED AT 10:46:42 ON 27 FEB 2004
L1 STRUCTURE UPLOADED
L2 968 S L1 SSS FULL

FILE 'CAPLUS' ENTERED AT 10:47:27 ON 27 FEB 2004
L3 60 S L2

Welcome to STN International! Enter x:x

LOGINID:ssspta1611sxp

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2		"Ask CAS" for self-help around the clock
NEWS 3	SEP 09	CA/CAplus records now contain indexing from 1907 to the present
NEWS 4	DEC 08	INPADOC: Legal Status data reloaded
NEWS 5	SEP 29	DISSABS now available on STN
NEWS 6	OCT 10	PCTFULL: Two new display fields added
NEWS 7	OCT 21	BIOSIS file reloaded and enhanced
NEWS 8	OCT 28	BIOSIS file segment of TOXCENTER reloaded and enhanced
NEWS 9	NOV 24	MSDS-CCOHS file reloaded
NEWS 10	DEC 08	CABA reloaded with left truncation
NEWS 11	DEC 08	IMS file names changed
NEWS 12	DEC 09	Experimental property data collected by CAS now available in REGISTRY
NEWS 13	DEC 09	STN Entry Date available for display in REGISTRY and CA/CAplus
NEWS 14	DEC 17	DGENE: Two new display fields added
NEWS 15	DEC 18	BIOTECHNO no longer updated
NEWS 16	DEC 19	CROPU no longer updated; subscriber discount no longer available
NEWS 17	DEC 22	Additional INPI reactions and pre-1907 documents added to CAS databases
NEWS 18	DEC 22	IFIPAT/IFIUDB/IFICDB reloaded with new data and search fields
NEWS 19	DEC 22	ABI-INFORM now available on STN
NEWS 20	JAN 27	Source of Registration (SR) information in REGISTRY updated and searchable
NEWS 21	JAN 27	A new search aid, the Company Name Thesaurus, available in CA/CAplus
NEWS 22	FEB 05	German (DE) application and patent publication number format changes

NEWS EXPRESS	DECEMBER 28 CURRENT WINDOWS VERSION IS V7.00, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 23 SEPTEMBER 2003
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* * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 10:27:49 ON 27 FEB 2004

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 10:28:00 ON 27 FEB 2004
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DICTIONARY FILE UPDATES: 25 FEB 2004 HIGHEST RN 654632-96-9

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

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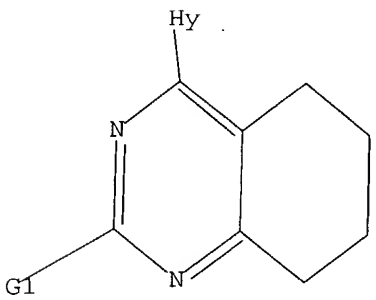
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading c:\program files\stnexp\queries\10610700.1

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



G1 Cb,Cy

Structure attributes must be viewed using STN Express query preparation.

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=> s l1 sss full
FULL SEARCH INITIATED 10:28:31 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 684139 TO ITERATE

 58.5% PROCESSED  400000 ITERATIONS                          968 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.09

FULL FILE PROJECTIONS:  ONLINE  **INCOMPLETE**
                        BATCH   **INCOMPLETE**
PROJECTED ITERATIONS:       684139 TO   684139
PROJECTED ANSWERS:            1533 TO     1777

L2          968 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                 ENTRY    SESSION
FULL ESTIMATED COST                             155.42     155.63

FILE 'CAPLUS' ENTERED AT 10:28:46 ON 27 FEB 2004
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FILE COVERS 1907 - 27 Feb 2004  VOL 140 ISS 10
FILE LAST UPDATED: 26 Feb 2004  (20040226/ED)

  This file contains CAS Registry Numbers for easy and accurate
  substance identification.

=> s l2
L3          60 L2

=> s l3 and piperidine
L4          12 L3 AND PIPERIDINE

=> s l3 and morpholine and thiomorpholine
L5           4 L3 AND MORPHOLINE AND THIOMORPHOLINE

=> s l3 and thiomorpholine
L6           4 L3 AND THIOMORPHOLINE
```

```
=> s l3 and morpholine
L7          15 L3 AND MORPHOLINE

=> s l6 and l7
L8           4 L6 AND L7

=> d his

     (FILE 'HOME' ENTERED AT 10:27:49 ON 27 FEB 2004)

     FILE 'REGISTRY' ENTERED AT 10:28:00 ON 27 FEB 2004
L1               STRUCTURE UPLOADED
L2          968 S L1 SSS FULL

     FILE 'CAPLUS' ENTERED AT 10:28:46 ON 27 FEB 2004
L3           60 S L2
L4           12 S L3 AND PIPERIDINE
L5            4 S L3 AND MORPHOLINE AND THIOMORPHOLINE
L6            4 S L3 AND THIOMORPHOLINE
L7           15 S L3 AND MORPHOLINE
L8            4 S L6 AND L7

=> s l3 and tetrahydoquinazoline
L9            0 L3 AND TETRAHYDOQUINAZOLINE

=> s quinazoline and cGMP
L10          21 QUINAZOLINE AND CGMP

=> s l10 and tetrahydro
L11           1 L10 AND TETRAHYDRO

=> d l11 fbib hitstr abs total

L11  ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2004 ACS on STN
AN   1988:570370  CAPLUS
DN   109:170370
TI   Inhibitors of cyclic AMP phosphodiesterase. 3. Synthesis and biological
     evaluation of pyrido and imidazolyl analogs of 1,2,3,5-tetrahydro
     -2-oxoimidazo[2,1-b]quinazoline
AU   Venuti, Michael C.; Stephenson, Robert A.; Alvarez, Robert; Bruno, John
     J.; Strosberg, Arthur M.
CS   Inst. Bio-Org. Chem., Syntex Research, Palo Alto, CA, 94304, USA
SO   Journal of Medicinal Chemistry (1988), 31(11), 2136-45
     CODEN: JMCMAR; ISSN: 0022-2623
DT   Journal
LA   English
OS   CASREACT 109:170370
GI
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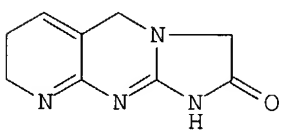
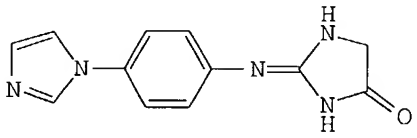


II



III

AB Hybridization of structural elements of the 1,2,3,5-**tetrahydro**-2-oxoimidazo[2,1-b]**quinazoline** ring system common to the cyclic (cAMP) phosphodiesterase (PDE) inhibitors lixazinone (RS-82856, I) and anagrelide with complementary features of other PDE inhibitor cardiotonic agents prompted the design and synthesis of 8 title compds., e.g. II and III. The necessary features of these compds. were determined within the framework of the proposed active-site models for the high affinity form of cAMP PDE inhibited by **cGMP** (type IV). Evaluation of these targets, both in vitro as inhibitors of platelet or cardiac type IV PDE or in vivo as inotropic agents in the pentobarbital-anesthetized dog model of congestive heart failure, showed that these structures possessed negligibly enhanced activities over the parent heterocyclic system, and remained significantly inferior to I in all respects. This difference is ascribed to the absence of the N-cyclohexyl-N-methylbutyramidyl-4-oxy side chain of I. The proposal that the acidic lactam-type functionality, common to type IV PDE inhibitor inotropic agents, mimics and polarizable cyclic phosphate moiety of cAMP suggested that the side chain of I may function as an effective surrogate for selected characteristics of the adenine portion of cAMP. However, results show that incorporation of adenine-like H-bonding functionalities common to other type IIv PDE inhibitors into the 1,2,3,5-**tetrahydro**-2-oxoimidazo[2,1-b] **quinazoline** system did not enhance activity to the levels observed for I and analogs. These observations, coupled with the kinetic pattern of inhibition of type IV PDE observed for I and analogs, suggest that access to a secondary, lipophilic-tolerant binding site, possibly coincident with the adenine binding domain, and adjacent to the catalytic ribose-phosphate binding site of platelet and cardiac type IV PDE, is responsible for the increased potency of these compds.

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=> d his

     (FILE 'HOME' ENTERED AT 10:27:49 ON 27 FEB 2004)

     FILE 'REGISTRY' ENTERED AT 10:28:00 ON 27 FEB 2004
L1              STRUCTURE UPLOADED
L2          968 S L1 SSS FULL

     FILE 'CAPLUS' ENTERED AT 10:28:46 ON 27 FEB 2004
L3           60 S L2
L4           12 S L3 AND PIPERIDINE
L5            4 S L3 AND MORPHOLINE AND THIOMORPHOLINE
L6            4 S L3 AND THIOMORPHOLINE
L7           15 S L3 AND MORPHOLINE
L8            4 S L6 AND L7
L9            0 S L3 AND TETRAHYDOQUINAZOLINE
L10          21 S QUINAZOLINE AND CGMP
L11           1 S L10 AND TETRAHYDRO

=> s tetrahydroquinazoline andcGMP
L12           0 TETRAHYDROQUINAZOLINE ANDCGMP

=> d l8 fbib hitstr abs total

L8   ANSWER 1 OF 4  CAPLUS  COPYRIGHT 2004 ACS on STN
AN   2001:816643  CAPLUS
DN   135:344500
TI   Preparation of condensed heteroaryl derivatives as phosphatidylinositol
```
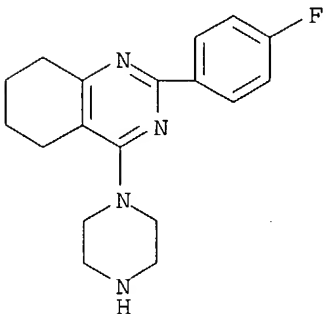

AB Title compds. [I; R1 = H, vinyl, allyl, haloalkyl, etc.; R2 = heteroaryl; R3 = H (n = 0), (halo)alkyl, cyclopropyl; R4 = (hetero)aryl; R5 = H, alkyl, acyl, etc.; W = O, S, SO; Z = O or S; n = 0 or 1] were prepared Thus, MeCR(CN)NCS (R = **2-phenyl**-4-thiazolyl) (preparation from 4-acetyl-2-phenylthiazole given) was cyclocondensed with PhNHNH2 and the product treated with MeI/KOCMe3 to give iminoimidazoline II (W = NH) which was hydrolized to II (W = O). Data for fungicidal activity of selected I were given.

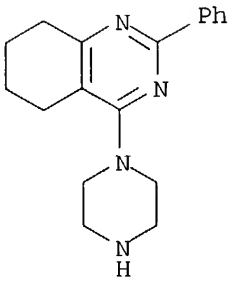
L13 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1996:31708 CAPLUS
DN 124:87034
TI Preparation of 2-phenylcycloalkanopyrimidine derivatives as antagonists of serotonin S2 receptor
IN Kataoka, Masahiro; Hino, Katsuhiko; Ochi, Yoshiaki
PA Dainippon Pharmaceutical Co, Japan
SO Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 07228573	A2	19950829	JP 1994-43076	19940216
				JP 1994-43076	19940216

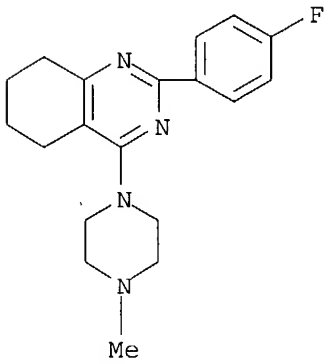
OS MARPAT 124:87034
IT **172351-15-4P 172351-16-5P 172351-19-8P**
172351-20-1P 172351-21-2P 172351-22-3P
172351-23-4P 172351-24-5P 172351-25-6P
172351-26-7P 172351-27-8P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of (diazacycloalkyl)phenylcycloalkanopyrimidine derivs. as antagonists of serotonin S2 receptor)
RN 172351-15-4 CAPLUS
CN Quinazoline, 2-(4-fluorophenyl)-5,6,7,8-tetrahydro-4-(1-piperazinyl)- (9CI) (CA INDEX NAME)



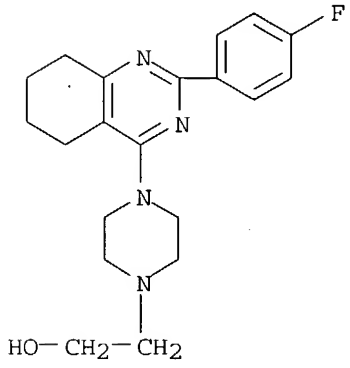
RN 172351-16-5 CAPLUS
CN Quinazoline, 5,6,7,8-tetrahydro-2-phenyl-4-(1-piperazinyl)- (9CI) (CA INDEX NAME)



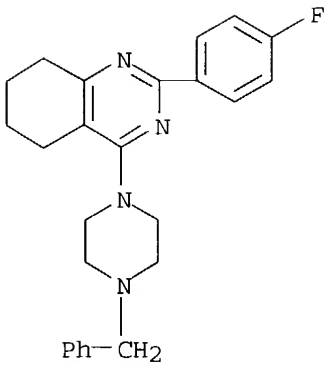
RN 172351-19-8 CAPLUS
CN Quinazoline, 2-(4-fluorophenyl)-5,6,7,8-tetrahydro-4-(4-methyl-1-piperazinyl)- (9CI) (CA INDEX NAME)



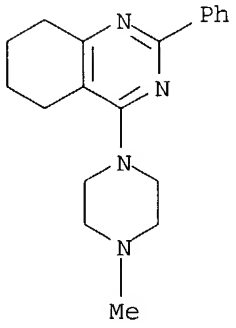
RN 172351-20-1 CAPLUS
CN 1-Piperazineethanol, 4-[2-(4-fluorophenyl)-5,6,7,8-tetrahydro-4-quinazolinyl]- (9CI) (CA INDEX NAME)



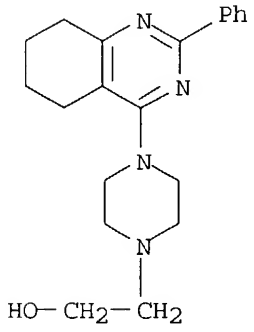
RN 172351-21-2 CAPLUS
CN Quinazoline, 2-(4-fluorophenyl)-5,6,7,8-tetrahydro-4-[4-(phenylmethyl)-1-piperazinyl]- (9CI) (CA INDEX NAME)



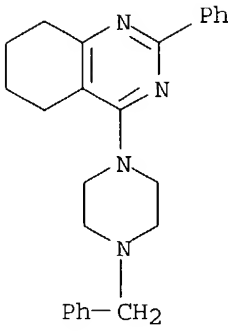
RN 172351-22-3 CAPLUS
CN Quinazoline, 5,6,7,8-tetrahydro-4-(4-methyl-1-piperazinyl)-2-phenyl- (9CI) (CA INDEX NAME)



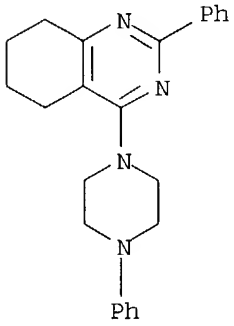
RN 172351-23-4 CAPLUS
CN 1-Piperazineethanol, 4-(5,6,7,8-tetrahydro-2-phenyl-4-quinazolinyl)- (9CI) (CA INDEX NAME)



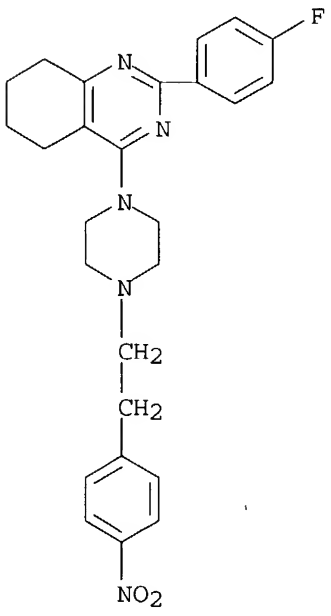
RN 172351-24-5 CAPLUS
CN Quinazoline, 5,6,7,8-tetrahydro-2-phenyl-4-[4-(phenylmethyl)-1-piperazinyl]- (9CI) (CA INDEX NAME)



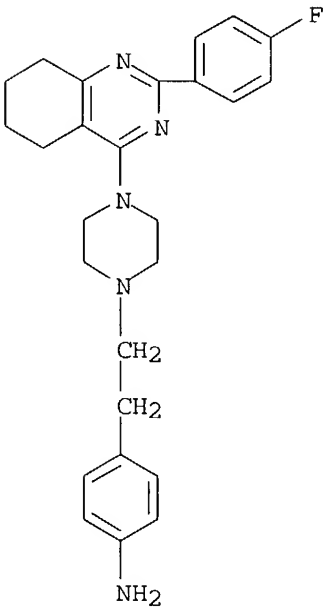
RN 172351-25-6 CAPLUS
CN Quinazoline, 5,6,7,8-tetrahydro-2-phenyl-4-(4-phenyl-1-piperazinyl)- (9CI) (CA INDEX NAME)



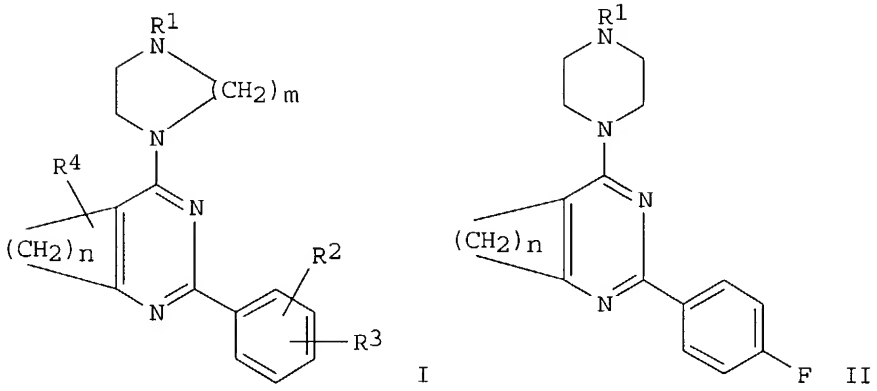
RN 172351-26-7 CAPLUS
CN Quinazoline, 2-(4-fluorophenyl)-5,6,7,8-tetrahydro-4-[4-[2-(4-nitrophenyl)ethyl]-1-piperazinyl]- (9CI) (CA INDEX NAME)



RN 172351-27-8 CAPLUS
CN Benzenamine, 4-[2-[4-[2-(4-fluorophenyl)-5,6,7,8-tetrahydro-4-quinazolinyl]-1-piperazinyl]ethyl]- (9CI) (CA INDEX NAME)



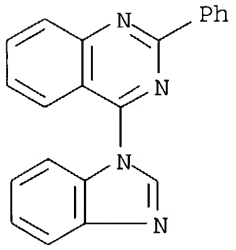
GI



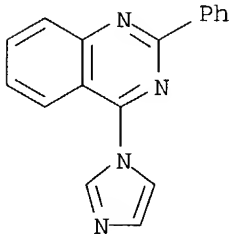
AB The title compds. [I; R1 = H, alkyl, cycloalkyl, hydroxyalkyl, cycloalkylalkyl, (un)substituted Ph or phenylalkyl; R2, R3 = H, halo, alkyl, alkoxy; R4 = H, alkyl; m = 2,3; n = 3-7], useful not only for the treatment of neg. schizophrenia with little extrapyramidal side effects and also serotonin-associated other central nervous system diseases such as anxiety, depression, Parkinson's disease, and sleep disorders, are prepared Thus, a mixture of 2.5 g 4-chloro-2-(4-fluorophenyl)-5,6,7,8,9,10-hexahydrocyclooctapyrimidine, 2.2 g piperazine, and 5 mL DMSO was heated to reflux at 110° for 1 h to give the title compound (II; R1 = H, n = 6). II (R1 = Me, n = 5) and II (R1 = Me, n = 4) showed IC50 of 7.5 and

23.2 nM, resp., for inhibiting the binding of [3H]ketanserin to crude synaptosome membrane (serotonin S2 receptor) preparation from rat brain.

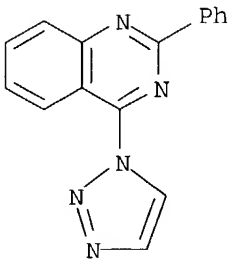
L13 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1995:716414 CAPLUS
DN 123:339969
TI Azolylquinazolines: synthesis and biological activity
AU Bodajla, M.; Stankovsky, S.; Spirkova, K.; Jantova, S.; Hudecova, D.
CS Faculty Chemical Technology, Slovak Technical University, Bratislava, SK-812 37, Slovakia
SO Chemical Papers (1994), 48(6), 432-6
CODEN: CHPAEG; ISSN: 0366-6352
PB Slovak Academy of Sciences, Institute of Chemistry
DT Journal
LA English
IT **153991-71-0P 170463-25-9P 170463-26-0P**
170463-27-1P 170463-28-2P 170463-29-3P
170463-30-6P 170463-31-7P 170463-32-8P
170463-33-9P 170463-34-0P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(synthesis and biol. activity of azolylquinazolines)
RN 153991-71-0 CAPLUS
CN Quinazoline, 4-(1H-benzimidazol-1-yl)-2-phenyl- (9CI) (CA INDEX NAME)



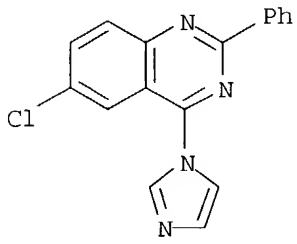
RN 170463-25-9 CAPLUS
CN Quinazoline, 4-(1H-imidazol-1-yl)-2-phenyl- (9CI) (CA INDEX NAME)



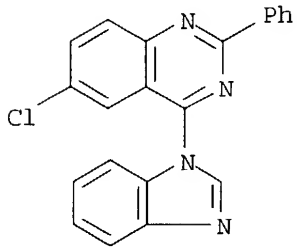
RN 170463-26-0 CAPLUS
CN Quinazoline, 2-phenyl-4-(1H-1,2,3-triazol-1-yl)- (9CI) (CA INDEX NAME)



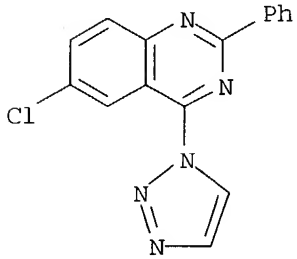
RN 170463-27-1 CAPLUS
CN Quinazoline, 6-chloro-4-(1H-imidazol-1-yl)-2-phenyl- (9CI) (CA INDEX NAME)



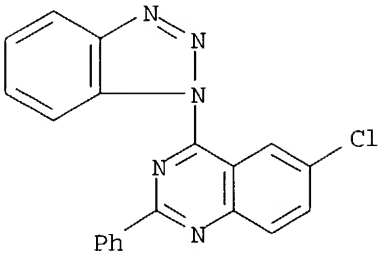
RN 170463-28-2 CAPLUS
CN Quinazoline, 4-(1H-benzimidazol-1-yl)-6-chloro-2-phenyl- (9CI) (CA INDEX NAME)



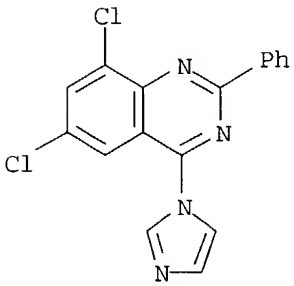
RN 170463-29-3 CAPLUS
CN Quinazoline, 6-chloro-2-phenyl-4-(1H-1,2,3-triazol-1-yl)- (9CI) (CA INDEX NAME)



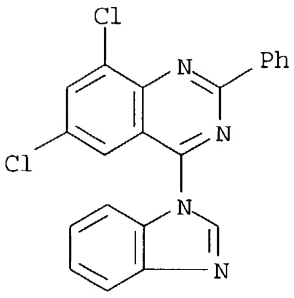
RN 170463-30-6 CAPLUS
CN Quinazoline, 4-(1H-benzotriazol-1-yl)-6-chloro-2-phenyl- (9CI) (CA INDEX NAME)



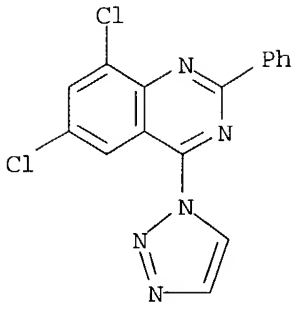
RN 170463-31-7 CAPLUS
CN Quinazoline, 6,8-dichloro-4-(1H-imidazol-1-yl)-2-phenyl- (9CI) (CA INDEX NAME)



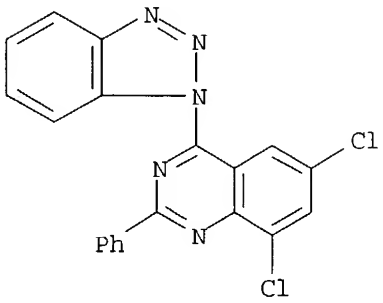
RN 170463-32-8 CAPLUS
CN Quinazoline, 4-(1H-benzimidazol-1-yl)-6,8-dichloro-2-phenyl- (9CI) (CA INDEX NAME)



RN 170463-33-9 CAPLUS
CN Quinazoline, 6,8-dichloro-2-phenyl-4-(1H-1,2,3-triazol-1-yl)- (9CI) (CA INDEX NAME)



RN 170463-34-0 CAPLUS
CN Quinazoline, 4-(1H-benzotriazol-1-yl)-6,8-dichloro-2-phenyl- (9CI) (CA INDEX NAME)



AB Preparation of some **2-phenyl**-4-(azol-1-yl)quinazolines by reaction of the corresponding chloroquinazolines with the sodium salts of azoles is described. The IR, UV, and 1H NMR spectra and the preliminary screening of biol. activity of final products are presented.

=> d his

(FILE 'HOME' ENTERED AT 10:27:49 ON 27 FEB 2004)

FILE 'REGISTRY' ENTERED AT 10:28:00 ON 27 FEB 2004
L1 STRUCTURE UPLOADED
L2 968 S L1 SSS FULL

FILE 'CAPLUS' ENTERED AT 10:28:46 ON 27 FEB 2004
L3 60 S L2
L4 12 S L3 AND PIPERIDINE
L5 4 S L3 AND MORPHOLINE AND THIOMORPHOLINE
L6 4 S L3 AND THIOMORPHOLINE
L7 15 S L3 AND MORPHOLINE
L8 4 S L6 AND L7
L9 0 S L3 AND TETRAHYDOQUINAZOLINE
L10 21 S QUINAZOLINE AND CGMP
L11 1 S L10 AND TETRAHYDRO
L12 0 S TETRAHYDROQUINAZOLINE ANDCGMP
L13 7 S L3 AND 2-PHENYL